

## Aquous d v lopabl high performance curable polymers

Patent Number: ☐ EP0827032, A3  
Publication date: 1998-03-04  
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Requested Patent: ☐ JP10090898  
Application Number: EP19970306209 19970815  
Priority Number(s): US19960697760 19960829  
IPC Classification: G03F7/038  
EC Classification: G03F7/038, B41J2/16B2, G03F7/00  
Equivalents: ☐ US6007877

### Abstract

Disclosed is a composition which comprises a polymer containing at least some monomer repeat units with water-solubility- or water-dispersibility-imparting substituents and at least some monomer repeat units with photosensitivity-imparting substituents which enable crosslinking or chain extension of the polymer upon exposure to actinic radiation, said polymer being of the formula or wherein x is an integer of 0 or 1, A and B are specified groups, and n is an integer representing the number of repeating monomer units. In one embodiment, a single functional group imparts both photosensitivity and water solubility or dispersability to the polymer. In another embodiment, a first functional group imparts photosensitivity to the polymer and a second functional group imparts water solubility or dispersability to the polymer. Also disclosed is a process for preparing a thermal ink jet printhead with the aforementioned polymers.

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